



LKT Laboratories, Inc.

Moclobemide

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Product Information

Product ID M5610

CAS No. 71320-77-9

Chemical Name

Synonym

Formula $C_{13}H_{17}ClN_2O_2$

Formula Wt. 268.74

Melting Point

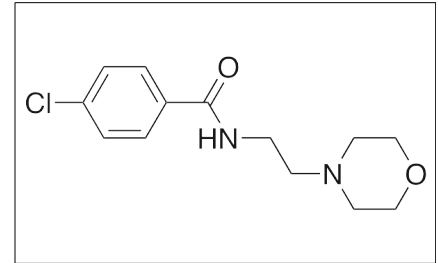
Purity $\geq 98\%$

Solubility Soluble in isopropanol, methanol, DMSO (>20 mg/ml), ethanol (100 mM), and water (partly miscible)

Store Temp Ambient

Ship Temp Ambient

Description Moclobemide is a reversible inhibitor of MAO-A that exhibits antidepressant, anti-inflammatory, antinociceptive, and neuromodulatory activities. Moclobemide decreases immobility time in animals undergoing the forced swim test and suppresses LPS-induced increases in IL-1 β and TNF- α expression in glial cells. Additionally, moclobemide increases latency time in animal models of thermal pain through an $\alpha 2$ -adrenergic receptor-mediated pathway. Moclobemide also induces hippocampal neurogenesis, upregulating progenitor cell proliferation and expression of BDNF in vitro.



Bulk quantities available upon request

Product ID	Size
M5610	10 mg
M5610	25 mg
M5610	100 mg

References Bielecka AM, Paul-Samojedny M, Obuchowicz E. Moclobemide exerts anti-inflammatory effect in lipopolysaccharide-activated primary mixed glial cell culture. *Naunyn Schmiedebergs Arch Pharmacol.* 2010 Dec;382(5-6):409-17. PMID: 20811738.

Li YF, Zhang YZ, Liu YQ, et al. Moclobemide up-regulates proliferation of hippocampal progenitor cells in chronically stressed mice. *Acta Pharmacol Sin.* 2004 Nov;25(11):1408-12. PMID: 15525460.

Schreiber S, Getslev V, Weizman A, et al. The antinociceptive effect of moclobemide in mice is mediated by noradrenergic pathways. *Neurosci Lett.* 1998 Sep 11;253(3):183-6. PMID: 9792241.

Ferigolo M, Barros HM, Marquardt AR, et al. Comparison of behavioral effects of moclobemide and deprenyl during forced swimming. *Pharmacol Biochem Behav.* 1998 Jun;60(2):431-7. PMID: 9632226.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.